

CLAIMS

What is claimed is:

Sub AI
1. A remote user interface system to enable a remote browser application to monitor and control a power system of the type having one or more rectifier subsystems, one or more reserve power subsystems and one or more power distribution subsystems, comprising:

5 a monitor and control system coupled to said power system for obtaining operating state information from at least one of said subsystems and for providing operating state information to at least one of said subsystems;

a data storage system associated with said monitor and control system for storing said state information; and

10 a user interface manager capable of accessing said data storage system and being operative to:

(a) provide an executable applet to said remote browser application, the applet generating a user interface within said browser application for monitoring and controlling said electric power supply system;

15 (b) supply selected state information to said applet for display by said remote browser within said user interface; and

(c) receive data values generated by said applet in response to user interaction via said user interface and to communicate said data values to said data storage system for use in controlling said electric power system.

2. The remote user interface system of claim 1 wherein said user interface manager communicates with said applet using data packets compatible with the internet protocol.

5 3. The remote user interface system of claim 1 wherein said user interface manager also supports a local user interface associated with said monitor and control system.

4. The remote user interface system of claim 1 wherein said user interface manager also supports a local user interface that includes a touchpad input mechanism for user interaction with the power system.

5 5. The remote user interface system of claim 1 further wherein said user interface manager generates at least one display screen containing both static and dynamic content.

6. The remote user interface system of claim 5 wherein said dynamic content represents said state information.

20 7. The remote user interface system of claim 1 wherein said user interface manager generates at a plurality of display screens, at least a portion of which contain dynamic content representing said state information, and wherein at least one of said applet and said user interface manager generates hyperlinks connecting said dynamic content with other display screens.

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8. The remote user interface system of claim 1 wherein said monitor and control system includes a rectifier monitor and control module for obtaining operating state information from at least one of said rectifier subsystems.

9. The remote user interface system of claim 1 wherein said monitor and control system includes a reserve monitor and control module for obtaining operating state information from batteries attached to said power system.

10. The remote user interface system of claim 1 wherein said monitor and control system includes a distribution monitor and control module for obtaining operating state information from said power distribution subsystem.

11. The remote user interface system of claim 1 wherein said remote browser application is an internet web browser application.

12. A remote user interface system to enable a remote browser application to monitor and control a power system, comprising:

a monitor and control system coupled to said power system for obtaining operating state information about said power supply system and for providing operating state information to said power system;

a data storage system associated with said monitor and control system for storing said state information; and

a user interface manager capable of accessing said data storage system and being operative to provide an executable applet to said remote browser application, the

50 applet generating a user interface within said browser application for monitoring and
controlling said power system.

13. The remote user interface system of claim 12 wherein said user interface
55 manager communicates with said applet using data packets compatible with the internet
protocol.

14. The remote user interface system of claim 12 wherein said user interface
60 manager also supports a local user interface associated with said monitor and control
system.

15. The remote user interface system of claim 12 wherein said user interface
65 manager also supports a local user interface that includes a touchpad input mechanism
for user interaction with the power system.

16. The remote user interface system of claim 12 further wherein said user
interface manager generates at least one display screen containing both static and
dynamic content.

70 17. The remote user interface system of claim 16 wherein said dynamic
content represents said state information.

18. The remote user interface system of claim 12 wherein said user interface
manager generates at a plurality of display screens, at least a portion of which contain

75 dynamic content representing said state information, and wherein at least one of said
user interface manager and said applet generates hyperlinks connecting said dynamic
content with other display screens.

19. The remote user interface system of claim 12 wherein said monitor and
80 control system includes a rectifier monitor and control module for obtaining operating
state information from at least one of said rectifier subsystems.

20. The remote user interface system of claim 12 wherein said monitor and
control system includes a reserve monitor and control module for obtaining operating
85 state information from batteries attached to said power system.

21. The remote user interface system of claim 12 wherein said monitor and
control system includes a distribution monitor and control module for obtaining operating
state information from said power distribution subsystem.

22. The remote user interface system of claim 12 wherein said remote
browser application is an internet web browser application.

95 23. A method of controlling a telecommunications power system,
comprising:

delivering an executable applet to a browser application running on a
computer that communicates with said telecommunications power system via a
network;

100 using a processor powered by said power system to obtain operating state
information about said power system;

communicating said state information to said applet via said network;

sending control information generated by said applet to said processor via
said network; and

105 using said control information to change the operating state of said power
system.

24. The method of claim 23 further comprising using said processor to
store said state information in a database administered by said processor.

25. The method of claim 23 further comprising using said processor to
store said control information generated by said applet in a database administered
by said processor.

26. The method of claim 23 further comprising generating a user interface
display within said browser application that includes said state information.

27. The method of claim 23 further comprising generating a user interface
display within said browser application that includes static information and dynamic
information, the dynamic information being based on said state information.

28. The method of claim 27 wherein said applet generates a plurality of display screens in which at least a portion of said dynamic information on one of said display screens defines a hyperlink relationship with another of said display screens.

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